

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A high-density, computer-readable medium, comprising:
 - at least one access block including physical address data having 24 columns and 6 rows, and user control data having 24 columns and 24 rows;
 - at least one playback allowance code stored in the user control data, the at least one playback allowance code being adapted to determine region-based allowance of playback of data recorded on the recording medium;
 - at least one false playback allowance code stored in the user control data for a playback-inhibited region, the at least one false playback allowance code being recorded with an optional value other than a value of said playback allowance code, wherein the at least one playback allowance code and the at least one false playback allowance code have been randomized by a shift register; and
 - at least one of an address unit number and user data recorded on the recording medium, wherein at least one of the address unit number and the user data is scrambled by being logically combined with said at least one playback allowance code.
2. (Cancelled)
3. (Previously Presented) The high-density, computer-readable medium according to claim 1, wherein said at least one playback allowance code comprises a code for a playback-allowed region, the code for the playback-allowed region being combined with at least one of the address unit number and the user data in a scrambled state.

4. (Cancelled)

5. (Previously Presented) The high-density, computer-readable medium according to claim 1, wherein said at least one playback allowance code is used to de-scramble at least one of the address unit number and the user data when the computer-readable medium is played back.

6. (Cancelled)

7. (Currently Amended) A method for reproducing data of a high-density, computer-readable medium, comprising the steps of:

(A) identifying region identification information including a region-based playback allowance code and at least one false playback allowance code associated with a playback inhibited region, the allowance code and the false playback allowance code having been randomized by use of a shift register and then stored in a recording/reproducing apparatus, and detecting ~~[[a]]~~ the region-based playback allowance code stored in user control data of the computer-readable medium that includes at least one access block having physical address data and user control data, the physical address data having 24 columns and 6 rows, the user control data having 24 columns and 24 rows, the playback allowance code corresponding to the identified region identification information;

(B) de-scrambling a scrambled address unit number read from the computer-readable medium, based on the detected playback allowance code, and performing a data reproducing operation by referring to the de-scrambled address unit number;~~and~~

~~(C) associating at least one false playback allowance code stored in the user control data with a playback inhibited region, the at least one false playback allowance code being recorded~~

~~with an optional value other than a value of said playback allowance code.~~

8. (Previously Presented) The method according to claim 7, wherein the region identification information is intrinsic region identification information for a region where the recording/reproducing apparatus is to be sold and used.

9. (Previously Presented) The method according to claim 7, wherein the step (B) comprises the step of logically combining the detected playback allowance code with the scrambled address unit number read from the computer-readable medium, thereby de-scrambling the scrambled address unit number into an original address unit number.

10. – 13. (Cancelled)

14. (Currently Amended) A method of recording data on a high-density, computer-readable medium, comprising the steps of:

~~(A)~~ selecting a region-based playback allowance code in order to restrict a playback, the region-based playback allowance code being unique to at least one region and being stored in user control data of at least one data block, the at least one data block including physical address data having 24 columns and 6 rows, and the user control data having 24 columns and 24 rows;

~~(B)~~ scrambling at least one of a user data and an address unit based on the selected region-based playback allowance code; and

~~(C)~~ associating at least one false playback allowance code stored in the user control data with a playback-inhibited region, the at least one false playback allowance code being recorded with an optional value other than a value of said playback allowance code; and

randomizing the region-based playback allowance code and the at least one false

playback code with a shift register.

15. (Currently Amended) The method of claim 14, further comprising the step of:

~~(C)~~-recording at least one of the scrambled user data and the address unit with the selected region-based playback allowance code on the high-density recording medium.

16. (Previously Presented) The method of claim 14, wherein the selected region-based playback allowance code is one of at least two codes.

17. (Currently Amended) A method of recording data on a high-density, computer-readable recording medium, comprising the steps of:

~~(A)~~-selecting a region-based playback allowance code in order to restrict a playback, the region-based playback allowance code being unique to at least one region and being stored in user control data of at least one data block, the at least one data block including physical address data having 24 columns and 6 rows, and the user control data having 24 columns and 24 rows;

~~(B)~~-scrambling at least one of a user data and an address unit based on the selected region-based playback allowance code;

~~(C)~~-recording the at least one of the scrambled user data and address unit, and at least one of a non region-based playback allowance code along with the selected region-based playback allowance code on the high-density recording medium;

~~(D)~~ associating at least one false playback allowance code stored in the user control data with a playback-inhibited region, the at least one false playback allowance code being recorded with an optional value other than a value of said playback allowance code; and

randomizing the region-based playback allowance code and the at least one false playback code with a shift register.

18. (Cancelled)

19. (Previously Presented) The high-density, computer-readable medium according to claim 1, further comprising a second playback allowance code stored in the user control data, the second playback allowance code being adapted to determine region-based allowance for a second region for playback of data recorded on the recording medium.

20. (Previously Presented) The method according to claim 7, further comprising detecting a second playback allowance code stored in the user control data, the second playback allowance code being adapted to determine region-based allowance for a second region for playback of data recorded on the recording medium.

21. (Previously Presented) The method of claim 14, further comprising detecting a second playback allowance code stored in the user control data, the second playback allowance code being adapted to determine region-based allowance for a second region for playback of data recorded on the recording medium.

22. (Previously Presented) The method of claim 17, further comprising detecting a second playback allowance code stored in the user control data, the second playback allowance code being adapted to determine region-based allowance for a second region for playback of data recorded on the recording medium.

23. (New) The high-density, computer readable medium of claim 1, wherein the randomized at least one playback allowance code and the at least one false playback allowance code are

logically combined with an address unit number by an exclusive OR element as to scramble the address unit number by the code associated with a selected region.

24. (New) The method of claim 7, wherein the region-based playback code and the at least one false playback allowance code are logically combined with an address unit number with an exclusive OR element so as to scramble the address unit number.

25. (New) The method of claim 14, further comprising combining the randomized region-based playback allowance code and the at least one false playback code with an exclusive OR element as to scramble the address unit by the playback allowance code or false playback code and recording the scrambled address unit on the medium.

26. (New) The method of claim 17, further comprising combining the randomized region-based playback allowance code and the at least one false playback code with an exclusive OR element as to scramble the address unit by the playback allowance code or false playback code.

<End of Claims Listing>